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APPLICATION NO.	NO. FILING DATE FIRST NAMED IN		ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/616,712	07/10/2003	George T. Bayer	030364	2621	
23464	7590 10/07/2005		EXAMINER		
	N INGERSOLL, P.C.	LAVILLA, MICHAEL E			
ONE OXFORD CENTRE, 301 GRANT STREET 20TH FLOOR			ART UNIT	PAPER NUMBER	
PITTSBURG	H, PA 15219	1775			

DATE MAILED: 10/07/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

				)		
Office Action Summary		cation No.	Applicant(s)			
		16,712	BAYER ET AL.			
		iner	Art Unit			
		nel La Villa	1775	dross		
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply						
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.  - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.  - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.  - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133).  Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).						
Status						
1) Responsive to communication(s) filed on	Responsive to communication(s) filed on					
	This action is <b>FINAL</b> . 2b)⊠ This action is non-final.					
closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.						
Disposition of Claims						
4) Claim(s) 1-15 is/are pending in the application.  4a) Of the above claim(s) is/are withdrawn from consideration.  5) Claim(s) is/are allowed.  6) Claim(s) 1-15 is/are rejected.  7) Claim(s) is/are objected to.  8) Claim(s) are subject to restriction and/or election requirement.						
Application Papers						
<ul> <li>9) ☐ The specification is objected to by the Examiner.</li> <li>10) ☐ The drawing(s) filed on 10 July 2003 is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.  Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).</li> <li>11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.</li> </ul>						
Priority under 35 U.S.C. § 119						
<ul> <li>12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).</li> <li>a) All b) Some * c) None of:</li> <li>1. Certified copies of the priority documents have been received.</li> <li>2. Certified copies of the priority documents have been received in Application No</li> <li>3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).</li> <li>* See the attached detailed Office action for a list of the certified copies not received.</li> </ul>						
Attachment(s)  1) Notice of References Cited (PTO-892)  2) Notice of Draftsperson's Patent Drawing Review (PTO-948)  3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)  Paper No(s)/Mail Date 20030710.		4) Interview Summary Paper No(s)/Mail Da 5) Notice of Informal Pa	ite	-152)		

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### **DETAILED ACTION**

## Claim Objections

1. Claims 9 and 15 are objected to under 37 CFR 1.75(c), as being of improper dependent form for failing to further limit the subject matter of a previous claim. Applicant is required to cancel the claim(s), or amend the claim(s) to place the claim(s) in proper dependent form, or rewrite the claim(s) in independent form. Claims 9 and 15 refer to amounts of aluminum that are outside the range of previous claims, thereby improperly broadening those previous claims.

### **Double Patenting**

2. Applicant is advised that should claim 12 be found allowable, claim 14 will be objected to under 37 CFR 1.75 as being a substantial duplicate thereof. When two claims in an application are duplicates or else are so close in content that they both cover the same thing, despite a slight difference in wording, it is proper after allowing one claim to object to the other as being a substantial duplicate of the allowed claim. See MPEP § 706.03(k).

# Claim Rejections - 35 USC § 112

- 3. The following is a quotation of the second paragraph of 35 U.S.C. 112:
- 4. The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.
- 5. Claims 1-10 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

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1. Regarding Claims 1, 5, and 6, it is unclear whether the claimed coating thickness refers to the thickness of diffused coating, as diffused, or to its thickness prior to its being diffused.

- II. Regarding Claim 3, it is unclear what is the percentage basis of aluminum that is claimed. Is this percent by weight?
- III. Regarding Claim 8, it is unclear what is meant by the reference to a retort in Claim 4, as there is no mention of a retort in Claim 4.
- IV. Regarding Claim 10, it is unclear what is meant by the preamble reference to the "method of claim 1" as Claim 1 is a product. It is unclear what is the antecedent basis of the phrase "the diffusion mixture."

## Claim Rejections - 35 USC § 102

- 6. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:
- 7. A person shall be entitled to a patent unless -
- 8. (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- 9. Claims 1-15 are rejected under 35 U.S.C. 102(b) as being anticipated by Bayer et al. WO 98/20182. Bayer et al. teaches aluminum silicon diffused coatings that are 300 microns in thickness. See Bayer et al. (Examples 1 and 2; and Table 1). While Bayer may not teach the particulars of some of the product-by-process claim limitations, it would be expected that the claimed products would encompass those of Bayer et al. since the process limitations have not been

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demonstrated to necessarily result in products that do not encompass those of the prior art.

#### Conclusion

10. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Michael La Villa whose telephone number is (571) 272-1539. The examiner can normally be reached on Monday through Friday.

- 11. If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Deborah Jones can be reached on (571) 272-1535. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.
- 12. Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Michael La Villa 2 October 2005 MICHAEL E. LAVILLA PH.D. PRIMARY EXAMINER